

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): \_\_\_\_\_ FHWA \_\_\_\_\_

**INSTRUCTIONS:**

*Lead Agency contacts should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  <p style="text-align: center;">TPF-05(317)</p>		<b>Transportation Pooled Fund Program - Report Period:</b> <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input checked="" type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
<b>TPF Study Number and Title:</b> TPF-05(317) The Evaluation of Low Cost Safety Improvements Pooled Fund Study (ELCSI-PFS)			
<b>Lead Agency Contact:</b> Woon Kim, FHWA	<b>Lead Agency Phone Number:</b> (202) 493-3383	<b>Lead Agency E-Mail</b> Woon.Kim@dot.gov	
<b>Lead Agency Project ID:</b> TPF-05(317)	<b>Other Project ID (i.e., contract #):</b> N/A	<b>Project Start Date:</b> 08/2022	
<b>Original Project Start Date:</b> 05/2005	<b>Original Project End Date:</b> 05/2010	<b>If Extension has been requested, updated project End Date:</b> N/A continuing effort	

Project schedule status:

On schedule    
  On revised schedule    
  Ahead of schedule    
  Behind schedule

Overall Project Statistics:

Total Project Budget	Total Funds Expended This Quarter	Percentage of Work Completed to Date
Ongoing project (N/A)	Ongoing project (N/A)	Ongoing project (N/A)

**Project Description:**

The primary goal of the Evaluation of Low-Cost Safety Improvement Pool Fund Study (ELCSI-PFS) was to save lives and reduce traffic crash injuries by identifying effective safety strategies for national implementation. The ELCSI-PFS conducted research to quantify the safety effectiveness of selected strategies — so-called crash modification factors (CMFs) — that may address priority safety concerns but had not been proven. This study also provided benefit-cost (B/C) ratios to estimate the resulting relationship between the relative monetary value of benefits and costs of a selected strategy. Transportation agencies utilized estimated CMFs and B/C ratios to select, plan, fund, and install a specific safety strategy on a targeted site to improve its outstanding safety issue. The secondary goal of this study is to improve and advance the statistical tools to conduct more reliable, rigorous research. For this effort, this study collaborated with the American Statistical Association (ASA) and identified new statistical methodologies to advance the current practices

used in the development of CMFs. This study initiated in 2005 but continued adding years for additional studies and is currently running Phase XIII (so-called 5 CMFs).

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**

ELCSI-PFS, PHASE XIII

- Completed the kickoff meeting for the task order studying
  - Rectangular Rapid Flashing Beacons (RRFBs)
  - Left-Turn Lanes Improvements (LTL)
  - Curve Enhanced Delineation (CED)
  - Alternative Rumble Strips (ARS)
  - Fixed Object Delineation (FOD)
- Completed work plan revisions based on feedback from the kickoff meeting
- Conducted literature reviews on the safety effectiveness of the targeted countermeasures as part of gap analysis
- Began gap analyses to identify what is known about the safety effectiveness of LTLs and RRFBs and what are current research needs
- Developed a draft survey to be distributed among the pooled fund study members to identify potential study sites

PUBLICATIONS

Publications for Phase XI are in progress regarding the following topics:

- Mini-roundabouts
- Bike lane configuration at intersections
- Wrong way driving low cost safety improvements

**Anticipated work next quarter:**

ELCSI-PFS, PHASE XIII

- Determine potential study sites
- Begin investigating the CED installation types and safety issues
- Develop data collection plan and analysis approach for the ARS evaluation
- Develop data collection plan and analysis approach for the FOD evaluation

**Significant Results:**

- Initiated Phase XIII task order
- Making progress on publications related to Phase XI

**Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

No issues encountered

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**Potential Implementation:**

N/A